

IAP10 Rec'd PCT/PTO 02 DEC 2005

PTO/SB/21 (09-04)

Doc

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number

10/527,374

Filing Date

03/10/05

First Named Inventor

Beckman

Art Unit

Examiner Name

Attorney Docket Number

ARIZ.10665

ENCLOSURES (Check all that apply)☐

Fee Transmittal Form

☐

Fee Attached

☐

Amendment / Reply

☐

After Final

☐

Affidavits/declaration(s)

☐

Extension of Time Request

☐

Express Abandonment Request

☒

Information Disclosure Statement

☐

Certified Copy of Priority Document(s)

☐Response to Missing Parts/
Incomplete Application☐Reply to Missing Parts under
37 CFR 1.52 or 1.53☐

Drawing(s)

☐

Licensing-related Papers

☐

Petition

☐Petition to Convert to a
Provisional Application☐Power of Attorney, Revocation
Change of Correspondence Address☐

Terminal Disclaimer

☐

Request for Refund

☐

CD, Number of CD(s) _____

☐

Landscape Table on CD

☐After Allowance Communication
to TC☐Appeal Communication to Board
of Appeals and Interferences☐Appeal Communication to TC
(Appeal Notice, Brief, Reply Brief)☐

Proprietary Information

☐

Status Letter

☐Other Enclosure(s) (please
identify below):

Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name

Schmeiser Olsen & Watts, LLP

Signature

Printed name

Albert L. Schmeiser

Date

November 29, 2005

Reg. No.

30,681

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the

Signature

Typed or printed name

Gina Edwards

Date

November 30, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENT PURSUANT TO
37 C.F.R. §§1.97-1.99

PATENT APPLICATION

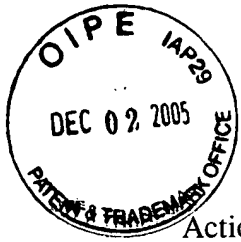
Applicant:	Beckman, James R.	Docket No.:	ARIZ-10665
Filed on:	3/10/05	Serial No.:	10/527,374
For:	METHOD AND APPARATUS FOR SIMULTANEOUS HEAT AND MASS TRANSFER UTILIZING A CARRIER-GAS		

Mail Stop Application
Commissioner for Patents
Alexandria, VA 22313

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and pursuant to 37 C.F.R. §§1.97-1.99, Applicant(s) hereby notifies the U.S. Patent and Trademark Office of the documents listed on the attached Form PTO-1449. One copy of each cited document is submitted herewith. Applicant respectfully submits that all pending claims are patentable over the foregoing references, alone or in combination. The Examiner is requested to initial the enclosed Form PTO-1449 and return a copy thereof to the undersigned.

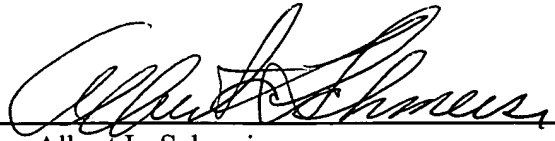
The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant reserves the right to dispute any of the listed documents as prior art during examination. Further, Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. Furthermore, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.



This Information Disclosure Statement is being filed before the mailing of a first Office

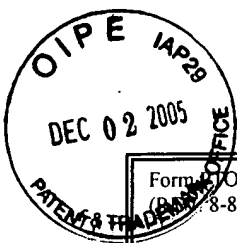
Action on the merits under 37 C.F.R. 1.114.

Respectfully submitted,

By 
Albert L. Schmeiser
Reg. No. 30,681

Date: November 29, 2005

Enclosures: PTO-1449



Form PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 8-83) PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO. ARIZ-10665		SERIAL NO. 10/527,374	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Beckman			
				FILING DATE 03/10/2005		GROUP	
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
		Furter, William F. Salt Effect in Distillation: A Literature Review II, The Canadian Journal of Chemical Engineering, Vol. 55, June, 1977, pps 229-238					
		Furter, William F. Salt Effect in Distillation: A Literature Review II, The Canadian Journal of Chemical Engineering, Vol. 55, June, 1977, pps 23-36					
		4. Guerreri, G. Membrane Alcohol Separation Process - Integrated Pervaporation and Fractional Distillation, Trans IChemE, Vol. 70, Part A, September 1992, pps. 501-508					
		5. Agrawal, Rakesh; Fidkowski, Zbigniew T.; Xu, Jianguo Prefractionation to Reduce Energy Consumption in Distillation without Changing Utility Temperatures, AIChE Journal, Vol. 42, No. 8, August 1996, pps 2118-2127					
		6. Beckman, James R.; Albers, Walter F. Energy-Efficient Ethanol-Water Fractionation by a Carrier-Gas Method, AIChE Journal, Vol. 37, No. 2, February, 1991, pps 281-284					
		7. Davis, J. F.; Tung, Hsien-Hsin; Mah, R. S. H. Fractionation with Condensation and Evaporation in Wetted-Wall Columns, AIChE Journal, Vol. 30, No. 2, March, 1984, pps 328-338					
		8. Daugulis, Andrew J.; Axford, Darryl B.; McLellan, P. James The Economics of Ethanol Production by Extractive Fermentation, The Canadian Journal of Chemical Engineering, Vol. 69, April, 1991, pps 488-497					
		9. Beckman, James R.; Hamieh, Bassem M. Carrier-Gas Desalination Analysis Using Humidification-Dehumidification Cycle, Dept. of Chemical, Bio and Materials Engineering, Arizona State University, 1999, pps 183-193					
		10. Hamieh, Bassem M.; Beckman, James R.; Ybarra, Michael D. Brackish and Seawater Desalination Using a 20 ft ² Dewvaporation Tower, Dept. of Chemical, Bio and Materials Engineering, Arizona State University, 2001, pps 217-226					
		11. Hamieh, Bassem M.; Beckman, James R.; Ybarra, Michael D. The Dewvaporation Tower: An Experimental & Theoretical Study with Economic Analysis, Desalination & Water Reuse, Vol. 10/2, 2000, pps 35-43					
		12. Beckman, James R. U.S. provisional patent application titled "Method and Apparatus for Desalination and Concentration by a Carrier-Gas Tower" 1999, all pages					
		13. Beckman, James R. Carrier-Gas Enhanced Atmospheric Pressure Desalination Final Report, September 2002, all pages					
		14. Beckman, James R. Pressurized Industrial Dewvaporation Design CGS Evaporation Pond Water Reclamation Final Report, June 2004, all pages					
		15. Beckman, James R. Innovative Atmospheric Pressure Desalination Final Report, September 1999, all pages					
		16. Beckman, James R.; Ybarra, Michael; Flores, Melvin Staged Carrier-Gas Fractionation Analysis, Unpublished, 1999, all pages					



		18. Davis, Andrew R. Laboratory to Industry: Industrialization of the Dewvaporation Process, MS Thesis, Arizona State University, Dec. 2003, all pages
EXAMINER		DATE CONSIDERED
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		